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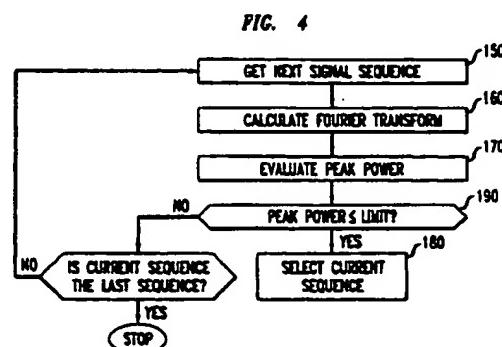
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(54) Reduction of peak to average power ratio in multicarrier systems

(57) We describe an improved method for decreasing the probability of an unacceptably high peak-to-average power ratio in a signal to be transmitted by a Frequency Division Multiplexing (FDM) system, such as a discrete multitone (DMT) system. The method involves generating at least two alternative signal sequences, computing Fourier transforms of the respective alternative signal sequences, and selecting for transmission one of these sequences, based on the Fourier transform computations. More specifically, the selection of one sequence may be based, e.g., on the determination that the Fourier transform of that sequence has an acceptable peak power. Alternatively, a comparison may be made among the Fourier transforms of the respective signal sequences, and selection made of that sequence whose Fourier transform exhibits the lowest peak power.



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EUROPEAN SEARCH REPORT

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X	WO 96 10567 A (MARUHO KK ;MATSUI TAKEAKI (JP); YAMAZAKI HIROFUMI (JP); HASHINAGA) 11 April 1996 (1996-04-11) * abstract * * page 6, last paragraph - page 8, paragraph 1 * * figures 1-3 * * claims 1,5,8,11-13,16 * ---	1	H04L27/26
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		-/-	
<p>The present search report has been drawn up for all claims</p>			
Place of search	Date of completion of the search	Examiner	
THE HAGUE	13 March 2000	Langinieux, F	
CATEGORY OF CITED DOCUMENTS		T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document	
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EUROPEAN SEARCH REPORT

Application Number
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Place of search THE HAGUE	Date of completion of the search 13 March 2000	Examiner Langinieux, F	
CATEGORY OF CITED DOCUMENTS		<p>T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document</p>	
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**ANNEX TO THE EUROPEAN SEARCH REPORT
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EP 99 30 1548

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report.
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